

ABSTRACT

Disclosed is a digital TV receiver including an A/D converter for converting an analog signal into a digital signal, a carrier recovery for converting the digital passband signal into a digital baseband signal, and a symbol clock recovery for converting digital baseband
5 real/imaginary component signals into OQAM type of real/imaginary component signals, detecting timing error information by high-passband-filtering, squaring, and adding the OQAM real/imaginary signals, and for generating and outputting the at least two times the frequency of the symbol clock corrected from the detected timing error information.